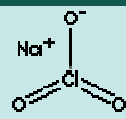


SODIUM CHLORATE

PRODUCT IDENTIFICATION

CAS NO.	7775-09-9	
EINECS NO.	231-887-4	
FORMULA	NaClO ₃	
MOL WT.	106.44	
H.S. CODE	2829.11	
TOXICITY	Oral rat LD50: 1200 mg/kg	
SYNONYMS	Soda Chlorate; Chloric acid, sodium salt; chlorax; Chlorsaure (German); Natrium Chloraat (Dutch); Natrium Chlorat (German); Sodio (Clorato Di) (Italian); Sodium (Chlorate De) (French); Chlorate of Soda;	
DERIVATION	chlorine on hot concentrated sodium hydroxide	
CLASSIFICATION	DISINFECTANTS /	

PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	white crystalline solid, saline taste
MELTING POINT	248 C
BOILING POINT	300 C (Decomposes)
SPECIFIC GRAVITY	2.5
SOLUBILITY IN WATER	soluble in water and alcohol
pH	5 - 7
VAPOR DENSITY	3.7
AUTOIGNITION	
NFPA RATINGS	Health: 1 Flammability: 0 Reactivity: 1 Other: Oxidizer
REFRACTIVE INDEX	
FLASH POINT	Not combustible
STABILITY	Stable under ordinary conditions

APPLICATIONS

Sodium chlorate is a powerful oxidizing agent. It is used to manufacture explosives and matches because of its ability to produce oxygen. Chlorate is a powerful ingredient of bleaching powder used in paper and pulp processing and calico printing. It is used also a weed killer and defoliant.

SALES SPECIFICATION

APPEARANCE	white crystalline solid
CONTENT	99.0% min
WATER INSOLUBLES	0.03% max
CHLORIDES	0.3% max
SULFATE SALTS	0.02% max
CHROMATES	0.02% max
Fe	0.03% max
WATER	1.0% max

TRANSPORTATION

PACKING	
HAZARD CLASS	5.1 (Packing Group: II)
UN NO.	1495

OTHER INFORMATION

Hazard Symbols: XN O, Risk Phrases: 22/9, Safety Phrases:13/17/46

Chlorate is the common name for chlorate(V) salt. The related names to the acids are clear when the oxidation number statement is appended; hypochlorite [or chlorate(I)] contains the ion, ClO⁻; chlorite [or chlorate(III)], ClO₂⁻; Chlorate [or chlorate(V)], ClO₃⁻; perchlorate [or chlorate(VII)], ClO₄⁻.